

In the Claims

1. (Previously Presented) In a coating composition adapted for application to, and curing on, a substrate, which composition contains particulate metal in a liquid medium and provides corrosion resistance as a cured coating on said substrate, the improvement in the particulate metal constituency of said composition comprising:

zinc alloy in flake form comprising greater than about 80 weight percent zinc in said alloy flake and a balance of less than about 20 weight percent of aluminum in said alloy flake.

2. (Previously Presented) In a coating composition adapted for application to, and curing on, a substrate, which composition contains particulate metal in a liquid medium and provides corrosion resistance as a cured coating on said substrate, the improvement in the particulate metal constituency of said composition comprising:

zinc alloy in flake form comprising greater than 50 weight percent zinc in said alloy flake and a balance of less than 50 weight percent of non-zinc alloy metal in said alloy flake, wherein said zinc alloy in flake form is zinc alloyed with one or more of, tin, magnesium, nickel, cobalt and manganese.

3. (Previously Presented) The coating composition of Claim 2 wherein said zinc is alloyed with tin and said zinc alloyed with tin contains not more than about 30 weight percent tin.

4. (Previously Presented) In a coating composition adapted for application to, and curing on, a substrate, which composition contains particulate metal in a liquid medium and provides corrosion resistance as a cured coating on said substrate, the improvement in the particulate metal constituency of said composition comprising:

zinc alloy in flake form comprising greater than 50 weight percent zinc in said alloy flake and a balance of less than 50 weight percent of non-zinc

alloy metal in said alloy flake, wherein said zinc alloy in flake form is a zinc-aluminum-magnesium alloy flake.

5. (Original) The coating composition of Claim 1 wherein said zinc alloy in flake form comprises a paste containing less than about 15 weight percent aluminum in said alloy flake, on a metals basis, and up to about 10 weight percent paste liquid, basis weight of said paste.

6. (Previously Presented) In a coating composition adapted for application to, and curing on, a substrate, which composition contains particulate metal in a liquid medium and provides corrosion resistance as a cured coating on said substrate, the improvement in the particulate metal constituency of said composition comprising:

zinc alloy in flake form comprising a paste containing from about 85 to about 86 weight percent zinc in said alloy flake and from about 4 to about 8 weight percent of aluminum in said alloy flake, both basis 100 weight percent of said paste, wherein said paste contains less than about 15 weight percent aluminum in said alloy flake, on a metals basis, and up to about 10 weight percent paste liquid, basis weight of said paste.

7. (Previously Presented) In a coating composition adapted for application to, and curing on, a substrate, which composition contains particulate metal in a liquid medium and provides corrosion resistance as a cured coating on said substrate, the improvement in the particulate metal constituency of said composition comprising:

zinc alloy in flake form comprising a paste containing from about 4 to about 5 weight percent of aluminum in said alloy flake, and from about 7 to about 10 weight percent of paste liquid, both basis 100 weight percent of said paste, wherein said paste contains less than about 15 weight percent aluminum in said alloy flake, on a metals basis.

8. (Previously Presented) In a coating composition adapted for application to, and curing on, a substrate, which composition contains particulate

metal in a liquid medium and provides corrosion resistance as a cured coating on said substrate, the improvement in the particulate metal constituency of said composition comprising:

zinc alloy in flake form comprising a paste of zinc and aluminum alloy in flake form containing from about 85 to about 86 weight percent zinc, from about 4 to about 8 weight percent aluminum and a balance of from about 7 to about 10 weight percent paste liquid, all basis 100 weight percent of said paste.

9. (Original) The coating composition of Claim 1 wherein zinc alloy in flake form is an alloy having at least about 90 percent of the flake particles with a longest dimension of less than about 15 microns and has at least about 50 percent of the flake particle with a longest dimension of less than about 13 microns, and said composition further contains non-alloyed particulate metal.